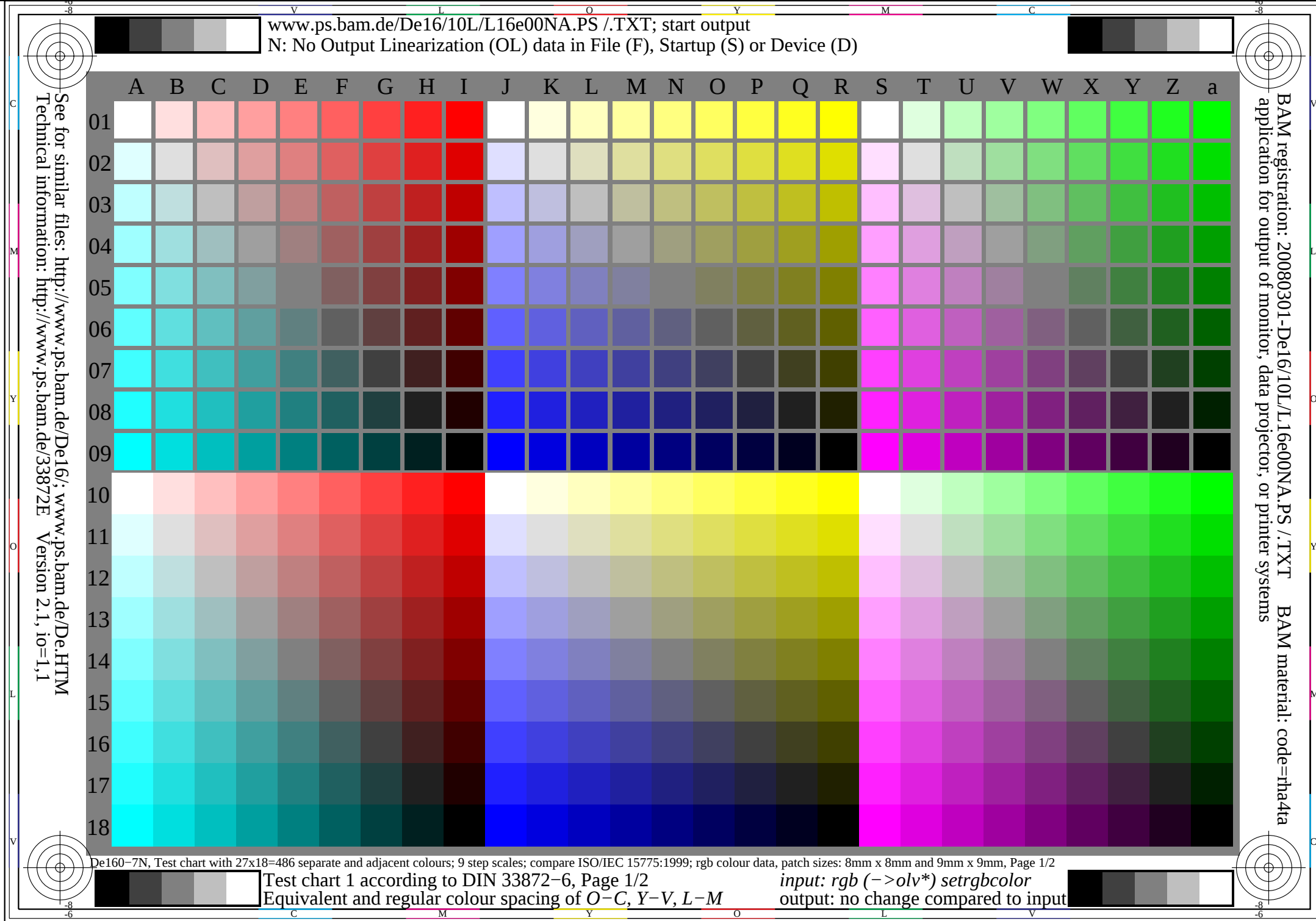




See for similar files: <http://www.ps.bam.de/De16/>; [www.ps.bam.de/De16e00NA.PS /.TXT](http://www.ps.bam.de/De16/De16e00NA.PS /.TXT)
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

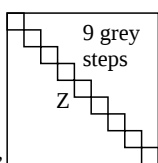
BAM registration: 20080301-De16/10L/L16e00NA.PS /.TXT BAM material: code=rha4ta
application for output of monitor, data projector, or printer systems

Test chart 1 according to DIN 33872-6, Page 1/2
Equivalent and regular colour spacing of O-C, Y-V, L-M
input: rgb (->olv*) setrgbcolor
output: no change compared to input

Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps

White W



Chromatic X
X = O, Y, L

There are three opposite hue planes
O-C, Y-V, and L-M.

The colour steps are
separate in the upper figure part and
ajacent in the lower figure part.
Between N and W there are 9 grey steps.
Mean grey Z is the mean step of N-W.

Chromatic X'
X' = C, V, M

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for
separate and adjacent colours.

Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes
in one of the following cases; for example see Annex (X):

Is there a continuous colour change
for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change
for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

De160-3

Documentation of file format, hardware and software for this test:

PDF-File: either www.ps.bam.de/De16/10L/L16e00NP.PDF
or www.ps.bam.de/De16/10P/P16e00NP.PDF

underline Yes/No

PS-File: either www.ps.bam.de/De16/10L/L16e00NA.PS
or www.ps.bam.de/De16/10P/P16e00NA.PS

or underline Yes/No

or underline Yes/No

or underline Yes/No

Used computer operating system:

either one of Windows/Mac/Unix/other and version:.....

This evaluation is for the device output: underline monitor/data projector/printer

Device model, driver and version:.....

Device output with PDF/PS-file:

underline PDF/PS-file

For device output with PDF-file (L/P)16e00NP.PDF:

either PDF-file transfer "download, copy" to PDF device.....
or with computer system interpretation by "Display-PDF":.....
or with software e. g. Adobe-Reader/-Acrobat and version:.....
or with software e. g. Ghostscript and version:.....

For device output with PS-file (L/P)16e00NA.PS:

either PS-file transfer "download, copy" to PS device.....
or with computer system interpretation by "Display-PS":.....
or with software e. g. Ghostscript and version:.....
or with software e. g. Mac-Yap and version:.....

Special remarks, e. g. output of Landscape (L) file L16e00NA.PS was cutted,
Portrait (P) file P16e00NA.PS was used:.....

.....

Part 3

De160-5

Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps

White W



Chromatic X
X = O, Y, L

There are three opposite hue planes
O-C, Y-V, and L-M.

The colour steps are separate in the
upper figure part and ajacent
ajacent in the lower figure part.
Between X' and X there are 9 colour steps.
Mean grey Z is the mean step of X'-X.

Chromatic X'
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for
separate and adjacent colours without large chromatic jumps at mean grey Z

Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes
in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X'
for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X'
for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

De161-3

Documentation of assessor colour vision properties for visual assessment

The assessor has **normal** colour vision according to one test:

underline Yes/No

either according to DIN 6160:1996 with Anomaloskop of Nagel
or with test charts using colour points according to Ishihara
or tested with, please specify:

underline Yes/unknown

underline Yes/unknown

underline Yes/unknown

Only for display (monitor, data projector) output:

Office workplace illumination is daylight (clouded/north sky)

underline Yes/No

PDF-file output with www.ps.bam.de/De13/10L/L13e00NP.PDF

underline Yes/No

Comparison of contrast range of 16 steps F to 0 with test chart no. 3 of DIN 33866-1:2000
give contrast range: (>F:0) (F:0) (E:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)

Remark: In daylighted offices the contrast range is in many cases:

on paper between: >F:0 (highly glossy), F:0 (silk glossy) and E:0 (matte)

on display between: >F:0 and E:0 (monitor), D:0 and 3:0 (data projector)

Only for optional colorimetric specification with PDF/PS file output

PDF-File: either www.ps.bam.de/De11/10L/L11e00NP.PDF

underline Yes/No

or www.ps.bam.de/De11/10P/P11e00NP.PDF

or underline Yes/No

PS-File: either www.ps.bam.de/De11/10L/L11e00NA.PS

or underline Yes/No

or www.ps.bam.de/De11/10P/P11e00NA.PS

or underline Yes/No

colour measurement and specification for:

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry: underline Yes/No

If No, please give other parameters:

Colorimetric specification with PS file for colours in the columns A to T

Exchange of CIELAB data in file www.ps.bam.de/De17/10L/L17e00NP.PS and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

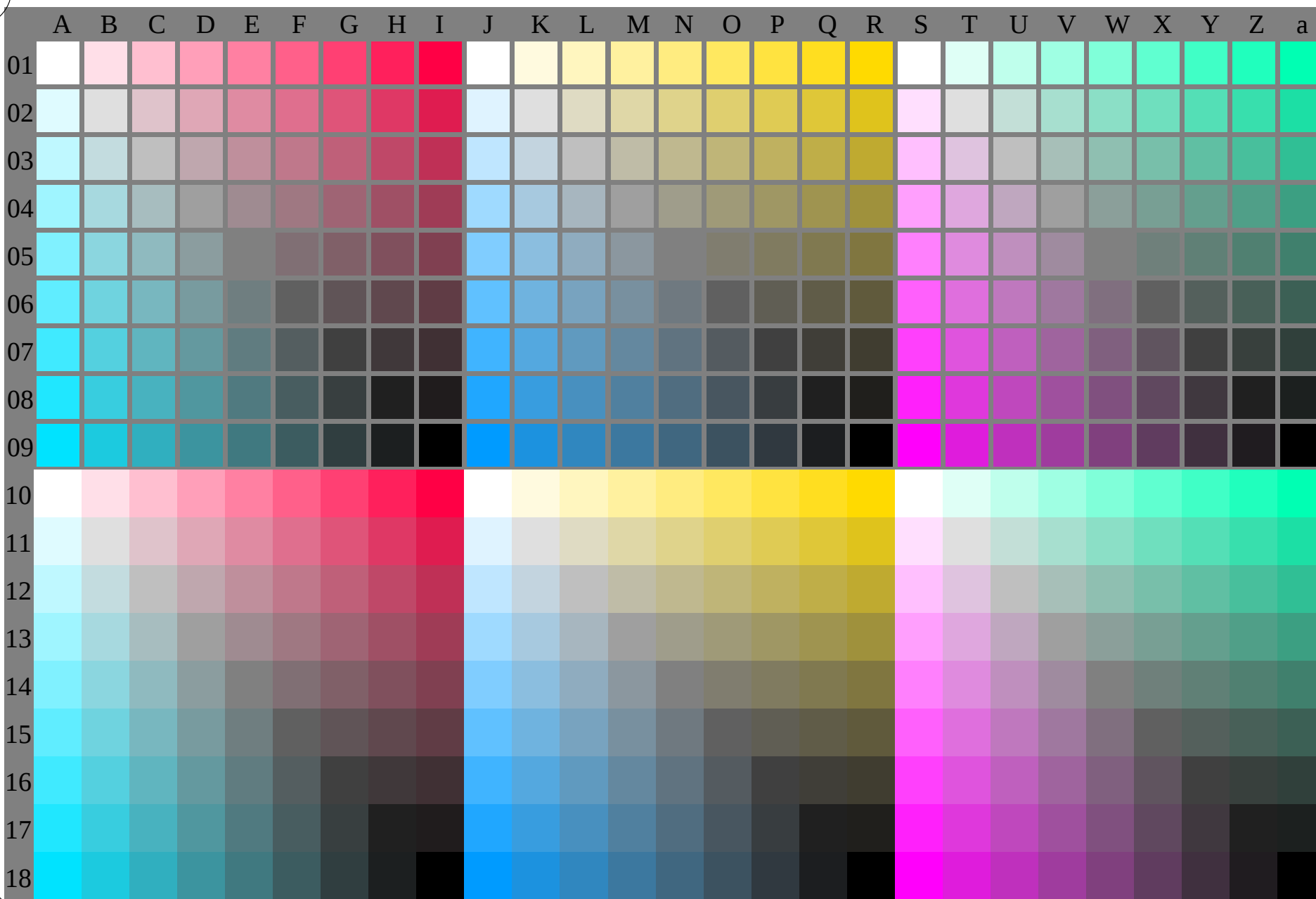
underline Yes/No

If No, please describe other method:

Part 4

De161-5

See for similar files: <http://www.ps.bam.de/De16/>; www.ps.bam.de/De16/De16e00NA.PS/.TXT
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1



BAM registration: 20080301-De16/10L/L16e00NA.PS /.TXT BAM material: code=rha4ta
application for output of monitor, data projector, or printer systems

De160-7N, Test chart with 27x18=486 separate and adjacent colours; 9 step scales; compare ISO/IEC 15775:1999; rgb colour data, patch sizes: 8mm x 8mm and 9mm x 9mm, Page 1/2

Test chart 1 according to DIN 33872-6, Page 1/2

Equivalent and regular colour spacing of O-C, Y-V, L-M

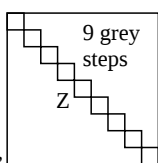
input: rgb (->olv*) setrgbcolor

output: no change compared to input

Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps

White W



Chromatic X
X = O, Y, L

There are three opposite hue planes
O-C, Y-V, and L-M.

The colour steps are
separate in the upper figure part and
adjacent in the lower figure part.
Between N and W there are 9 grey steps.
Mean grey Z is the mean step of N-W.

Chromatic X'
X' = C, V, M

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for
separate and adjacent colours.

Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes
in one of the following cases; for example see Annex (X):

Is there a continuous colour change
for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change
for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

De160-3

Documentation of file format, hardware and software for this test:

PDF-File: either www.ps.bam.de/De16/10L/L16e00NP.PDF
or www.ps.bam.de/De16/10P/P16e00NP.PDF

underline Yes/No

PS-File: either www.ps.bam.de/De16/10L/L16e00NA.PS
or www.ps.bam.de/De16/10P/P16e00NA.PS

or underline Yes/No

or underline Yes/No

or underline Yes/No

Used computer operating system:

either one of Windows/Mac/Unix/other and version:.....

This evaluation is for the device output: underline monitor/data projector/printer

Device model, driver and version:.....

Device output with PDF/PS-file:

underline PDF/PS-file

For device output with PDF-file (L/P)16e00NP.PDF:

either PDF-file transfer "download, copy" to PDF device.....
or with computer system interpretation by "Display-PDF":.....
or with software e. g. Adobe-Reader/-Acrobat and version:.....
or with software e. g. Ghostscript and version:.....

For device output with PS-file (L/P)16e00NA.PS:

either PS-file transfer "download, copy" to PS device.....
or with computer system interpretation by "Display-PS":.....
or with software e. g. Ghostscript and version:.....
or with software e. g. Mac-Yap and version:.....

Special remarks, e. g. output of Landscape (L) file L16e00NA.PS was cutted,
Portrait (P) file P16e00NA.PS was used:.....

.....

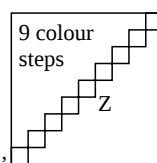
Part 3

De160-5

Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps

White W



Chromatic X
X = O, Y, L

There are three opposite hue planes
O-C, Y-V, and L-M.

The colour steps are separate in the
upper figure part and adjacent
adjacent in the lower figure part.
Between X' and X there are 9 colour steps.
Mean grey Z is the mean step of X'-X.

Chromatic X'
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for
separate and adjacent colours without large chromatic jumps at mean grey Z

Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes
in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X'
for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X'
for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

De161-3

Documentation of assessor colour vision properties for visual assessment

The assessor has **normal** colour vision according to one test:

underline Yes/No

either according to DIN 6160:1996 with Anomaloskop of Nagel
or with test charts using colour points according to Ishihara
or tested with, please specify:

underline Yes/unknown

underline Yes/unknown

underline Yes/unknown

Only for display (monitor, data projector) output:

Office workplace illumination is daylight (clouded/north sky)

underline Yes/No

PDF-file output with www.ps.bam.de/De13/10L/L13e00NP.PDF

underline Yes/No

Comparison of contrast range of 16 steps F to 0 with test chart no. 3 of DIN 33866-1:2000
give contrast range: (>F:0) (F:0) (E:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)

Remark: In daylighted offices the contrast range is in many cases:

on paper between: >F:0 (highly glossy), F:0 (silk glossy) and E:0 (matte)

on display between: >F:0 and E:0 (monitor), D:0 and 3:0 (data projector)

Only for optional colorimetric specification with PDF/PS file output

PDF-File: either www.ps.bam.de/De11/10L/L11e00NP.PDF

underline Yes/No

or www.ps.bam.de/De11/10P/P11e00NP.PDF

or underline Yes/No

PS-File: either www.ps.bam.de/De11/10L/L11e00NA.PS

or underline Yes/No

or www.ps.bam.de/De11/10P/P11e00NA.PS

or underline Yes/No

colour measurement and specification for:

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry: underline Yes/No

If No, please give other parameters:

Colorimetric specification with PS file for colours in the columns A to T

Exchange of CIELAB data in file www.ps.bam.de/De17/10L/L17e00NP.PS and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF underline Yes/No

If No, please describe other method:

Part 4

De161-5